

[INCH-POUND]
A-A-55517A
12 December 2002
SUPERSEDING
A-A-55517
21 February 1997

COMMERCIAL ITEM DESCRIPTION

RESISTORS, FIXED, CARBON FILM, GENERAL REQUIREMENTS FOR

The General Services Administration has authorized the use of this
Commercial Item Description (CID) for all federal agencies.

1. **SCOPE.** This CID covers the general requirements for a carbon film resistor. These resistor offer long term stability and may be considered as a substitute for carbon composition resistors. Requirements for specific resistors are covered in the individual CID sheets. For technical assistance when utilizing parts for parameters not specifically detailed (such as surge or high frequency applications) contact manufacturers listed on applicable CID sheets. The resistors covered by this CID are intended for commercial/industrial application.
2. **CLASSIFICATION.** This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following examples (see 7.1).

| | | | |
|---------------|---|---------------------------------------|--------------------------------------|
| AA55517 | 01 | *** | * |
| _____ | _____ | _____ | _____ |
| CID number | Applicable CID sheet (two digits) | Resistance value (see 3.2 and 3.3) | Resistance tolerance (see 3.4) |

3. SALIENT CHARACTERISTICS.

3.1 Interface and physical dimensions. The resistors supplied to this CID shall meet the interface and physical dimensions as specified on the applicable CID sheet.

3.2 Resistance. The nominal resistance value expressed in ohms is identified by a three digit number; the first two digits represent significant figures and the last digit specifies the number of zeros to follow. When resistance values less than 10 ohms are required, the letter "R" is substituted for one of the significant digits to represent the decimal point. When the letter "R" is used, significant digits follow.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, telephone (614) 692-0553, or facsimile (FAX) (614) 692-6939

3.3 Resistance value. Minimum and maximum resistance values shall be as specified (see 3.1).

3.4 Resistance tolerance. The resistance tolerance is identified by a single letter in accordance with table I.

TABLE I. Resistance tolerance.

| Symbol | Resistance tolerance Percent (\pm) |
|--------------|---|
| G | 2 |
| J (Standard) | 5 |
| K | 10 |

3.5 Operating ambient temperature. The operating ambient temperature shall be as specified on the applicable CID sheet.

3.6 Marking. Resistors shall be legibly and permanently color coded with the manufacturers standard color coding.

4. REGULATORY REQUIREMENTS.

4.1 Recycled/recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING.

6.1 Preservation, packing, and marking. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these resistors to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of documents. This section is not applicable to this CID.

7.4 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Packaging requirements.

7.7 Government users. To acquire information on obtaining these resistors from the government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CPB, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7678.

MILITARY INTERESTS:

Custodians:
NAVY - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE
Preparing activity:
DLA - CC
Project 5905-1688